



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010440
CERTIFICATION DATE: December 5, 2013
DATE RECERTIFICATION DUE: June 3, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

Melissa Kennedy

Program Manager, Calibration & Training

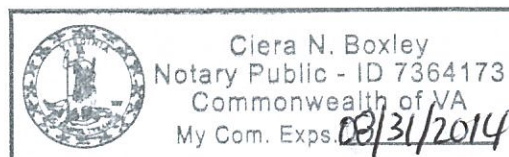
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 12th day of
December, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

mmB



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 12/9/2013

HMS
DBH

Instrument Serial Number: 010440 **As of 09-Dec-13**

Maintenance Date	Certification Date	Technician Initials	Remarks
05-Dec-13	05-Dec-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
18-Jun-13	18-Jun-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
09-Jan-13	09-Jan-13	DBH (21250)	CERTIFIED.
18-Jul-12	18-Jul-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
01-Feb-12	01-Feb-12	HMS (18910)	CERTIFIED
09-Aug-11	09-Aug-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
22-Feb-11	22-Feb-11	RJP (22428)	CERTIFIED.
09-Sep-10	09-Sep-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.
24-Mar-10	24-Mar-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
06-Oct-09	06-Oct-09	RJP (22428)	CERTIFIED.
22-Apr-09	22-Apr-09	RJP (22428)	CERTIFIED.
31-Mar-09	31-Mar-09	RJP (22428)	FIRMWARE/SOFTWARE UPGRADE. CERTIFIED.
25-Mar-09	25-Mar-09	NMJ (22392)	REPLACED TANK TOP LID, CERTIFIED.
05-Nov-08	05-Nov-08	RJP (22428)	CALIBRATED AND CERTIFIED.
03-Oct-08	03-Oct-08	DBH (21250)	CALIBRATED, CERTIFIED AND ACCEPTED.

HMS
NWK

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010440 Worksheet Start Date 12/5/2013

Location Buena Vista Police Department

Address 306 Park Ave., Buena Vista, VA 24416

DFS Technician Heather Stanton License No. 18910

☐ Laboratory ☒ On-Site

Site Specifications

	Yes	No
1 Secured Environment: Location must not be accessible to the general public.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Environment free from contaminants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3 Dedicated telephone line: The phone line should be used solely by the instrument.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 Adequate Ventilation: Enough space must be provided for the instrument and the printer to allow for adequate ventilation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5 Stable temperature controls: The instrument should not be exposed to direct sources of temperature variation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 115VAC power source: Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7 Room Condition: The site should be free of excessive moisture, heat and dust.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

E-Seek	Old serial no.	New serial no.	Supplies
Keyboard			Mouthpieces
Printer			Certificates of Analysis
UPS			Operator Worksheet
			Other:

Maintenance (if any)
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010440

Certification Date 12/5/2013

Instrument Barometer (mm HG) 740

Reference Barometer (mm HG) 740

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.240
0.250	0.243	0.235	0.250	Sample 2	0.240
Precision		sample min	sample max	Sample 3	0.240
0		0.240	0.240		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.145
0.150	0.146	0.141	0.150	Sample 2	0.145
Precision		sample min	sample max	Sample 3	0.145
0		0.145	0.145		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.077
0.080	0.078	0.075	0.081	Sample 2	0.077
Precision		sample min	sample max	Sample 3	0.077
0		0.077	0.077		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.019	0.016	0.022	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☐ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG230501-43

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.098
0.100	0.097	0.094	0.100	Sample 2	0.097
Precision		sample min	sample max	Sample 3	0.097
0.001		0.097	0.098		

DFS Technician

Heather M. Stach

Date

12/9/13

Issuing Analyst

Mehmet Kennedy

Date

12/10/13

Intox EC/IR II QA Worksheet
 Issued by Calibration and Training Program Manager
 Issue Date: 4-March-2013

DFS Document 250-F113
 Revision 6
 Page 2 of 2



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

HMS
MSK

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 12/05/2013
TEST EQUIPMENT NUMBER 010440		

RESULTS: TIME SAMPLE TAKEN 10:51 EST
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20 _____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 05 Dec 2013 at 11:23

sd
HMS
AK

Test Results

Instrument Serial Number 010440

Test # 000496 Subject Test

Test Location 1 Department of
Test Date 05 Dec 2013

Test Location 2 Forensic Science
Test Time 10:45
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

Effective Date 10/01/2012

License Number 18910

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 05 Dec 2013 End Time 10:52

Result Time 10:51

Result Date 05 Dec 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:45

Data Type BLK

Sample Value 0.000

Sample Time 10:46

Data Type CHK

Sample Value 0.099

Sample Time 10:46

Data Type BLK

Sample Value 0.000

Sample Time 10:48

Data Type SUBJ

Sample Value 0.000

Sample Time 10:48

Data Type BLK

Sample Value 0.000

Sample Time 10:49

Data Type SUBJ

Sample Value 0.000

Sample Time 10:51

Data Type BLK

Sample Value 0.000

Sample Time 10:51

Standard Type Dry Gas Std

Standard Value 0.097

Standard Lot Number AG230501-43

Standard Expiration Date 10/31/2014

Tank Pressure 1075

Barometric Pressure 740 mmHg

Blow Sample Number 1 Blow Duration 3.75 sec

Blow Volume 1748 cc End-of-Blow Time 10:48

Blow Sample Number 2 Blow Duration 3.46 sec

Blow Volume 1719 cc End-of-Blow Time 10:51

Tamper Evident Stamp df61bdf8

Test Status Code 0

Test Status Success

Intox EC/IR-II: Certification

HMS

Department of Forensic Science

Serial Number: 010440 Test Number: 497

Test Date: 12/05/2013 Test Time: 10:56 EST

NMK

Technician Initials: HMS

Dry Gas Target: 0.097

Lot Number: AG230501-43 Exp Date: 10/31/2014

Tank Pressure: 1071 psi Barometric Pressure: 740 mmHg

Test	g/210L	Time
DIAG	Pass	10:56
BLK	0.000	10:56
CHK	0.099	10:57
BLK	0.000	10:58
CHK	0.099	10:59
BLK	0.000	11:00
CHK	0.099	11:01
BLK	0.000	11:02

Success

Standard Value (at sea level): 0.100 g/210L

Certification Status: Success

One point certification done prior to firmware/software upgrade due to certification warning on display.

HMS
12/5/13

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010440 Test Number: 498

Test Date: 12/05/2013 Test Time: 11:03 EST

Dry Gas Target: 0.097

Lot Number: AG230501-43 Exp Date: 10/31/2014

Tank Pressure: 1056 psi Barometric Pressure: 740 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:04
CHK	0.098	11:04
BLK	0.000	11:06
CHK	0.098	11:07
BLK	0.000	11:08
CHK	0.098	11:09

Test Status: *Success*

Calibration CRC: 14E5E527

hms
msk

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010440 Test Number: 499

Test Date: 12/05/2013 Test Time: 11:11 EST

Dry Gas Target: 0.292

Lot Number: AG322702-08 Exp Date: 08/15/2015

Tank Pressure: 502 psi Barometric Pressure: 740 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:11
CHK	0.293	11:12
BLK	0.000	11:14
CHK	0.293	11:14
BLK	0.000	11:16
CHK	0.293	11:16

Test Status: *Success*

Calibration CRC: 14E5E527

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not

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 010440

System Date: 12/05/2013

System Time: 11:40 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

thus

not

Intox EC/IR-II: Calibration

Department of Forensic Science

Serial Number: 010440 Test Number: 500

Test Date: 12/05/2013 Test Time: 11:42 EST

Dry Gas Target: 0.097

Lot Number: 0651210013-06 Exp Date: 04/01/2014

Tank Pressure: 551 psi Barometric Pressure: 739 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:42
CAL	0.097	11:43

Test Status: *Success*

Calibration CRC: 4A342050

HMS

MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010440 Test Number: 501

Test Date: 12/05/2013 Test Time: 11:45 EST

Technician Initials: *HMS*

Dry Gas Target: 0.243

Lot Number: 2961225012-08 Exp Date: 11/01/2014

Tank Pressure: 188 psi Barometric Pressure: 739 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	11:46
BLK	0.000	11:47
CHK	0.240	11:47
BLK	0.000	11:49
CHK	0.240	11:50
BLK	0.000	11:51
CHK	0.240	11:52
BLK	0.000	11:54

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010440 Test Number: 502
Test Date: 12/05/2013 Test Time: 11:55 EST

Technician Initials: HMS

Dry Gas Target: 0.146

Lot Number: 2951215012-02 Exp Date: 11/01/2014

Tank Pressure: 590 psi Barometric Pressure: 738 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:56
BLK	0.000	11:56
CHK	0.145	11:57
BLK	0.000	11:58
CHK	0.145	11:59
BLK	0.000	12:01
CHK	0.145	12:01
BLK	0.000	12:03

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010440 Test Number: 503
Test Date: 12/05/2013 Test Time: 12:04 EST

Technician Initials: HMS

Dry Gas Target: 0.078

Lot Number: 0771308012-04 Exp Date: 05/01/2015

Tank Pressure: 693 psi Barometric Pressure: 739 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:05
BLK	0.000	12:05
CHK	0.077	12:06
BLK	0.000	12:07
CHK	0.077	12:08
BLK	0.000	12:09
CHK	0.077	12:10
BLK	0.000	12:11

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

AND
NSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010440 Test Number: 504
Test Date: 12/05/2013 Test Time: 12:13 EST

Technician Initials: HMS

Dry Gas Target: 0.019

Lot Number: 0771302011-04 Exp Date: 05/01/2015

Tank Pressure: 791 psi Barometric Pressure: 739 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:13
BLK	0.000	12:14
CHK	0.019	12:15
BLK	0.000	12:16
CHK	0.019	12:17
BLK	0.000	12:18
CHK	0.019	12:19
BLK	0.000	12:20

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

hms

NSK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010440 Test Number: 505

Test Date: 12/05/2013 Test Time: 12:22 EST

Dry Gas Target: 0.292

Lot Number: AG322702-08 Exp Date: 08/15/2015

Tank Pressure: 492 psi Barometric Pressure: 739 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:22
CHK	0.292	12:23
BLK	0.000	12:25
CHK	0.292	12:26
BLK	0.000	12:27
CHK	0.292	12:29

Test Status: *Success*

Calibration CRC: 4A342050

Handwritten initials: HNS and MK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010440 Test Number: 506

Test Date: 12/05/2013 Test Time: 12:31 EST

Dry Gas Target: 0.097

Lot Number: AG230501-43 Exp Date: 10/31/2014

Tank Pressure: 1031 psi Barometric Pressure: 738 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	12:32
CHK	0.098	12:33
BLK	0.000	12:34
CHK	0.097	12:35
BLK	0.000	12:36
CHK	0.097	12:37

Test Status: Success

Calibration CRC: 4A342050




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

Ans
Wick

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 12/05/2013
TEST EQUIPMENT NUMBER 010440		

RESULTS: TIME SAMPLE TAKEN 12:45 EST
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 09 Dec 2013 at 08:19

AMS
MSK

Test Results

Instrument Serial Number 010440

Test # 000507 Subject Test

Test Location 1 Department of
Test Date 05 Dec 2013

Test Location 2 Forensic Science
Test Time 12:38
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 05 Dec 2013 End Time 12:46

Result Time 12:45

Result Date 05 Dec 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 12:39

Data Type BLK

Sample Value 0.000

Sample Time 12:39

Data Type CHK

Sample Value 0.097

Sample Time 12:40

Data Type BLK

Sample Value 0.000

Sample Time 12:42

Data Type SUBJ

Sample Value 0.000

Sample Time 12:42

Data Type BLK

Sample Value 0.000

Sample Time 12:43

Data Type SUBJ

Sample Value 0.000

Sample Time 12:45

Data Type BLK

Sample Value 0.000

Sample Time 12:46

Standard Type Dry Gas Std

Standard Value 0.097

Standard Lot Number AG230501-43

Standard Expiration Date 10/31/2014

Tank Pressure 1022

Barometric Pressure 738 mmHg

Blow Sample Number 1 Blow Duration 3.51 sec

Blow Volume 1764 cc

End-of-Blow Time 12:42

Blow Sample Number 2 Blow Duration 3.47 sec

Blow Volume 1743 cc

End-of-Blow Time 12:45

Tamper Evident Stamp 47fa92cc

Test Status Code 0

Test Status Success